



# 1998 Toxics Release Inventory

# MASSACHUSETTS

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
<b>On-site Releases</b>			
Air Emissions	4,894,799	5,956,084	10,850,883
Surface Water Discharges	51,598	10,004	61,602
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	4,297	39,335	43,632
<b>Off-site Releases (Transfers Off-site to Disposal)*</b>	2,381,450	1,715,212	4,096,662
<b>Total On- and Off-site Releases</b>	7,276,249	7,671,296	14,947,545
<b>Recycled On-site</b>	27,120,870	717,005	27,837,875
<b>Recycled Off-site</b>	24,626,565	280,179	24,906,744
<b>Energy Recovery On-site</b>	6,549,099	0	6,549,099
<b>Energy Recovery Off-site</b>	6,991,254	293,466	7,284,720
<b>Treated On-site</b>	21,053,259	66,303	21,119,562
<b>Treated Off-site**</b>	12,325,582	222,973	12,548,555
<b>Quantity Released On- and Off-site***</b>	5,890,441	8,702,021	14,592,462
<b>Total Production-related Waste Managed</b>	104,557,070	10,281,947	114,839,017
<b>Total Non-production-related Waste Managed</b>	707,790	7,135	714,925

## Transfers Off-site for Further Waste Management/Disposal

	Original Industries	New Industries	Total
Recycling	24,010,072	356,135	24,366,207
Energy Recovery	6,968,783	292,341	7,261,124
Treatment	4,575,241	147,573	4,722,814
Publicly Owned Treatment Works (POTWs)	6,524,582	30	6,524,612
Metals and Metal Compounds*	23,331	0	23,331
Non-metal TRI Chemicals**	6,501,251	30	6,501,281
Other Off-site Transfers****	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	2,360,666	1,800,978	4,161,644
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	44,439,344	2,597,057	47,036,401

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

## For More Information . . .

### State Contact:

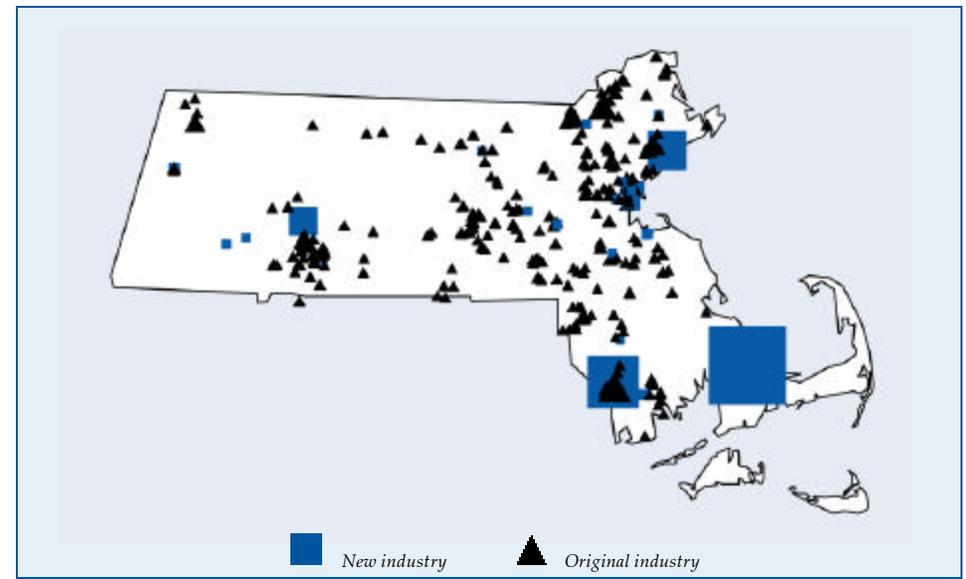
Walter Hope  
(617) 292-5982  
Fax: (617) 292-5858

### EPA Regional Contact:

Dwight Peavey  
(617) 918-1829  
Fax: (617) 918-1810

### To obtain TRI data use assistance, call

**TRI User Support Service (TRI-US):**  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Massachusetts. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data

Population	6,147,132
Square Miles	7,838
Total Facilities	503
Total Forms	1,501
Form As	228

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	41	43	44
Pounds	7,276,249	7,671,296	14,947,545
<b>National Rank for Total On-site Releases**</b>			
Rank	42	43	45
Pounds	4,894,799	5,956,084	10,850,883
<b>National Rank for Total Releases within State***</b>			
Rank	43	43	45
Pounds	5,807,203	7,433,142	13,240,345
<b>National Rank for Production-related Waste Managed</b>			
Rank	35	43	40
Pounds	104,557,070	10,281,947	114,839,017

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1998 Toxics Release Inventory

# MASSACHUSETTS

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
108-88-3	Toluene	1,651,892	0	0	0	9,836	1,661,728	4,828	5,650	4,186
7440-50-8	Copper	1,971	371	0	5	797,626	799,973	8,976	13,191	784,435
78-93-3	Methyl ethyl ketone	479,318	0	0	0	97,974	577,292	19,879	7,948	90,026
—	Zinc compounds	8,124	422	0	29	466,358	474,933	24,174	187,581	278,777
67-56-1	Methanol	316,069	0	0	500	3,934	320,503	7,031	0	3,934
79-01-6	Trichloroethylene	308,487	5	0	0	217	308,709	4,235	217	0
—	Glycol ethers	306,500	0	0	0	506	307,006	21,020	0	506
1330-20-7	Xylene (mixed isomers)	240,491	0	0	0	3,048	243,539	11,265	1,317	1,731
71-36-3	n-Butyl alcohol	236,370	0	0	0	0	236,370	0	0	0
7664-41-7	Ammonia	175,173	776	0	0	2,074	178,023	0	2,000	74

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-Site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	2,836,941	0	0	0	0	2,836,941	0	0	0
7664-41-7	Ammonia	2,346,114	9	0	0	0	2,346,123	0	0	0
—	Lead compounds	204	5	0	200	1,239,598	1,240,007	261	963,249	276,349
—	Nickel compounds	26,103	190	0	6,000	192,875	225,168	16,651	57,940	134,935
7664-39-3	Hydrogen fluoride	175,500	0	0	0	0	175,500	0	0	0
7664-93-9	Sulfuric acid	149,000	0	0	0	0	149,000	0	0	0
1634-04-4	Methyl tert-butyl ether	123,033	4,265	0	0	10,041	137,339	1,832	1,098	8,943
—	Barium compounds	1,341	127	0	1,900	128,044	131,412	18,000	128,040	4
—	Manganese compounds	1,170	5	0	29,000	58,350	88,525	0	58,350	0
110-54-3	n-Hexane	82,172	120	0	0	4,552	86,844	435	1,513	3,039

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1998 Toxics Release Inventory

# MASSACHUSETTS

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Globe Mfg. Co., Fall River, Bristol	496,271	0	0	0	0	0	496,271	640	50,710
Crown Cork & Seal Co. Inc., Lawrence, Essex	391,768	0	0	0	0	0	391,768	5	250
Rexam Graphics, South Hadley, Hampshire	242,360	0	0	0	0	0	242,360	250	0
Polyfibron Techs. Inc, Adams, Berkshire	217,334	0	0	0	0	0	217,334	0	0
Ideal Tape Co., Lowell, Middlesex	170,704	0	0	0	0	0	170,704	0	0
Alliance Leather Inc., Peabody, Essex	146,137	0	0	0	0	0	146,137	0	0
Solutia Inc., Springfield, Hampden	108,878	0	0	0	0	0	108,878	51	0
Hub Fabric Leather Co. Inc., Everett, Middlesex	100,874	0	0	0	0	0	100,874	0	0
Duro Finishing, Fall River, Bristol	98,823	0	0	0	0	0	98,823	251	0
Bradford Ind. Inc., Lowell, Middlesex	94,000	0	0	0	0	0	94,000	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

## On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Canal Electric Co., Sandwich, Barnstable	1,973,030	0	0	0	0	0	1,973,030	0	75,616
US Gen New England Inc., Somerset, Bristol	1,176,137	139	0	0	0	37,735	1,214,011	72,330	395
US Gen New England Inc. — Salem Harbor Station, Salem, Essex	858,320	340	0	0	0	0	858,660	234,400	0
Somerset Power L.L.C., Somerset, Bristol	667,279	52	0	0	0	0	667,331	49,000	0
Mt. Tom Station, Holyoke, Hampden	551,061	0	0	0	0	1,600	552,661	27,000	4
Mystic Station, Charlestown, Suffolk	133,468	0	0	0	0	0	133,468	0	59,319
New Boston Station, South Boston, Suffolk	130,211	0	0	0	0	0	130,211	0	0
Masspower, Indian Orchard, Hampden	82,880	0	0	0	0	0	82,880	0	0
Pittsfield Generating Co. L.P., Pittsfield, Berkshire	48,240	0	0	0	0	0	48,240	0	0
Gulf Oil Ltd. Ptnr. Chelsea Terminal, Chelsea, Suffolk	41,098	40	0	0	0	0	41,138	4,137	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1998 Toxics Release Inventory

# MASSACHUSETTS

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Globe Mfg. Co., Fall River, Bristol	5,974,000	0	0	9,560	0	60,591	496,880	6,541,031	0
Crown Cork & Seal Co. Inc., Lawrence, Essex	0	0	0	0	76,000	7	390,270	466,277	0
Rexam Graphics, South Hadley, Hampshire	0	63,550	0	719,410	3,563,710	724	242,483	4,589,877	0
Polyfibron Techs. Inc, Adams, Berkshire	890,000	0	0	42,179	50,994	0	217,334	1,200,507	0
Ideal Tape Co., Lowell, Middlesex	1,458,974	645,508	0	158,965	0	0	170,704	2,434,151	0
American Insulated Wire Northeast Cable, Attleboro, Bristol	4,600	5,318,940	0	8,000	29,000	0	156,920	5,517,460	0
Alliance Leather Inc., Peabody, Essex	0	0	0	2,886	0	0	146,137	149,023	0
Solutia Inc., Springfield, Hampden	0	0	0	0	259,063	4,366,582	109,042	4,734,687	0
Wollaston Alloys Inc., Braintree, Norfolk	1,630,244	84,300	0	0	0	0	107,544	1,822,088	0
Hub Fabric Leather Co. Inc., Everett, Middlesex	0	0	0	0	0	0	100,874	100,874	2

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

## Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Clean Harbors of Braintree Inc., Braintree, Norfolk	56,630	39,879	0	257,760	0	109,254	2,100,322	2,563,845	5
Canal Electric Co., Sandwich, Barnstable	0	0	0	0	757	0	2,048,237	2,048,994	0
US Gen New England Inc., Somerset, Bristol	0	0	0	0	150	0	1,288,400	1,288,550	0
US Gen New England Inc. — Salem Harbor Station, Salem, Essex	0	560	0	0	0	0	1,103,930	1,104,490	0
Somerset Power L.L.C., Somerset, Bristol	0	0	0	0	61,000	0	717,000	778,000	0
Mt. Tom Station, Holyoke, Hampden	0	0	0	0	0	0	580,000	580,000	0
Mystic Station, Charlestown, Suffolk	0	0	0	0	0	0	192,588	192,588	0
New Boston Station, South Boston, Suffolk	0	0	0	0	0	0	129,854	129,854	0
Global Petroleum Corp., Revere, Suffolk	0	0	0	0	0	65,979	105,521	171,500	223
Masspower, Indian Orchard, Hampden	0	0	0	0	0	0	83,000	83,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.